

## ABSTRACT

There is provided a transmission device having a preferable power efficiency and a wide control range of transmission output power. At the pre-stage side of a high-frequency power amplifier (105) for changing the amplitude of a high-frequency phase modulation signal (S4) according to a base band amplitude modulation signal (S2) and a gain control signal (S12), there is provided a variable gain amplifier (201) for changing the amplitude of the high-frequency phase modulation signal (S4) according to the base band amplitude modulation signal (S2) and the gain control signal (S12), so that the base band amplitude modulation signal (S2) is supplied to a variable gain amplifier (203) via a linear-log conversion unit (206).